# SUMMARY REPORT
# ON THE
# ASBESTOS ASSESSMENT SURVEY
# OF ZINC LADEN DUST
# AT THE
# BUNKER HILL
# ROASTER FLOOR BUILDING AND ROASTER BUILDING NUMBER 5
# KELLOGG, IDAHO

Project Number: A94-013

March 7, 1994

PREPARED FOR:

**Pintlar Corporation**
**P.O. Box 480**
**Kellogg, Idaho**

Prepared by

MCS Environmental
2104 Reserve Street
Missoula, Montana 59801

**PINTLAR CORPORATION**
1005 W. McKinley (208) 784-1321
P.O. Box 480 Fax (208) 783-6621
Kellogg, Idaho 83837

March 9, 1994

Ms. Rebecca Goehring
U.S. EPA
422 W. Washington St.
Boise, Idaho 83702

Re: Bunker Hill Superfund Site - Sampling Results for Roaster Areas and Revised Letter Plan

Dear Ms. Goehring:

Enclosed please find one copy of the results from the February 23 and 24, 1994 sampling of the roaster areas. My letter to you dated March 7 mistakenly referenced a March 2 sampling. I apologize for any confusion this may have caused. This letter also contains other changes from the earlier letter and so this correspondence should supersede the March 2 correspondence.

These areas were sampled using protocols, we felt were appropriate to the situation, by AHERA certified inspectors (MCS Environmental). The samples were analyzed at an NAV accredited laboratory. The results indicate that 3 sections of the elevated floors of the #5 Roaster Building and 5 sections from the Roaster Floor levels contain at least a trace of asbestos. The other sections, 30 in all, show non-detectable levels of asbestos.

Based upon your letter to me dated March 9, we will not be collecting zinc materials from inside the roaster buildings until we have evaluated the options you have given us and we determine which is the best way to go forward.

Sincerely,

Antonio J. Chavez
Vice President - Engineering

encl.

cc: (w/encl.)
Nick Ceto
Trey Harbert
Jim Hodge
Bill Hudson
Mike Thomas
Rich Nearing
Scott Peterson
Ed Whitley

MCS Environmental

2104 Reserve Street, Missoula, MT 59801
1-800-735-7095, (406) 728-7755
Fax (406) 728-7367

404 North 31st, Suite # 213
Billings, MT 59101
(406) 248-1596

March 7, 1994



Mr. Jim Hodge
Pintlar Corporation
P.O. Box 480
Kellogg, Idaho 83837

Dear Mr. Hodge:

MCS Environmental is pleased to provide you with this report for the limited Asbestos Assessment Survey of the accumulated dust and debris within the Roaster Floor Building and Roaster Building #5, Bunker Hill Complex, Kellogg, Idaho.

The Asbestos Assessment Survey included visual assessment of dusts/debris, bulk sampling, Polarized Light Microscopy/Dispersion Staining (PLM/DS) analysis, and review of existing blue prints and building specifications. Asbestos contaminated dusts and debris were identified within the Roaster Floor Building and the Roaster Building #5. Sample Areas within the Roaster Floor Building identified as having trace amounts or greater of asbestos include the following: Level 1, SA4; Level 2, SA4, SA5; Level 4, SA2, SA3, SA5.

Sample Areas within the Roaster Building #5 identified as having trace amounts or greater of asbestos include the following: Level 2, SA2, SA3; Level 4, SA2.

If you have any questions, or require any clarification concerning this report, please contact me or Mr. Wade Johnston at (800) 735-7095. It was a pleasure working with you and your organization, and we look forward to working with you again in the future.

Sincerely,

Ronald A. Knutson

Ronald A. Knutson
Industrial Hygienist

RAK/ews
Enclosure

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## LIST OF APPENDICES

## EXECUTIVE SUMMARY

MCS Environmental was contracted by Mr. Jim Hodge of the Pintlar Corporation, Kellogg, Idaho to conduct a limited Asbestos Assessment of zinc laden dusts/debris of the Roaster Floor Building and the Roaster Building #5, Bunker Hill Superfund Site, Kellogg, Idaho.

The limited Asbestos Assessment of dusts/debris at this location was conducted on February 23 and 24, 1994 by Mr. Ronald A. Knutson, Accredited Asbestos Inspector (Certification # MTA0964). The project scope included a visual assessment, bulk sampling, PLM/DS analysis, and review of existing blue prints and building specifications.

Based on our professional experience and expertise in environmental affairs, along with information and data gathered from the limited Asbestos Assessment, it is our qualified professional opinion that there are asbestos contaminated dusts/debris present in the Roaster Floor Building and the Roaster Building #5, Bunker Hill Superfund Site, Kellogg, Idaho.

Asbestos contaminated dusts and debris were identified within the Roaster Floor Building and the Roaster Building #5. Sample Areas within the Roaster Floor Building identified as having trace amounts or greater of asbestos include the following: Level 1, SA4; Level 2, SA4, SA5; Level 4, SA2, SA3, SA5.

Sample Areas within the Roaster Building #5 identified as having trace amounts or greater of asbestos include the following: Level 2, SA2, SA3; Level 4, SA2.

Our survey findings and related report conclusions are based on information obtained from our site observations and supporting laboratory analysis. The findings and conclusions presented here are not to be construed as legal advice.

Detailed conclusions and recommendations specific to this site and our investigation are provided in Sections 4.0 and 5.0, respectively of this assessment report.

## 1.0 INTRODUCTION

MCS Environmental was contacted by Mr. Jim Hodge of Pintlar Corporation, Kellogg, Idaho, to conduct a limited Asbestos Assessment Survey of the accumulated dust within the Roaster Floor Building and Roaster Building #5, Bunker Hill Complex, Kellogg, Idaho. The inspection area included approximately 56,000 square feet in the Roaster Floor Building and 50,000 square feet in the Roaster Building #5. The roaster buildings are abandoned, multi-story industrial ore processing facilities. Zinc laden dust, related to previous processing has accumulated on most horizontal surfaces in the building. Pintlar Corporation desires to recover the zinc dust for shipment and additional processing.

The survey of this location was conducted on February 23 and 24, 1994 by Mr. Ron A. Knutson, Accredited Asbestos Inspector (Certification # MTA0964)., MCS Environmental, Missoula, Montana.

## 2.0 OBJECTIVE

The purpose of the project was to conduct a limited Asbestos Assessment Survey on the accumulated dust in the above mentioned buildings. The project included development of a sampling plan to delineate areas where dust did and did not contain asbestos, limited bulk sampling of dust, and laboratory analysis using Polarized Light Microscopy/Dispersion Staining (PLM/DS).

Pursuant to EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP's), all Regulated Asbestos Containing Materials (RACM's) and Category II Non-Friable ACM's must be removed prior to any demolition which would affect these materials. However, the EPA requires the assessment of all ACM's within a facility prior to demolition, even though only RACM's and Category II ACM's need to be removed.

This phase of work focused strictly on the assessment of dusts and debris within the Roaster Floor Building and the Roaster Building #5. It did not include sampling and analysis of suspect ACBM's within the buildings.

Following is a list of tasks included in the limited Asbestos Assessment Survey of dust/debris:

- Development of a representative dust sampling plan
- Sampling of accumulated zinc dust in the Roaster Floor Building and Roaster Building #5.
- Laboratory analysis of samples using PLM/DS.
- Preparation of an Inspection Report summarizing and delineating areas in the buildings where dust/debris are impacted by asbestos.

## 3.0 ASSESSMENT SURVEY PARAMETERS

### 3.1 Dust Sampling Plan

Pintlar Corporation desires to remove and recover accumulated zinc dusts and debris located within the Roaster Floor Building and Roaster Building #5 which no detectable amounts of asbestos by volume as determined using PLM/DS. Assessment survey parameters were developed to maximize sample coverage yet provide a degree of sensitivity necessary to characterize each floor.

### 3.2 Sampling Grid Discretization

#### 3.2.1 Roaster Floor Building

Four, 14,000 square foot levels on the Roaster Floor Building were sampled to identify asbestos contaminated dust/debris. The levels are identified as Level 1-4, from the bottom to the top **excluding** the basement level. Each level was sectioned into 20 x 7 or 140 total grid nodes. Each grid node was 100 square feet in size.

Each floor was further divided into five (5) Sampling Areas which contained 4 x 7 or 28 total grid nodes. Horizontal surfaces within 10 random grid nodes which contained dusts and debris were sampled within the Sample Area. Suspect ACM's within the grid nodes were noted and assumed to be contaminated within a 3 foot distance of the suspect ACM. Sample results are reported by Sample Area and are representative of an area approximately 2800 square foot in size. A schematic of the Sampling Areas, grid spacing and grids sampled are included in Appendix A. Sample location notes are attached in Appendix B.

#### 3.2.2 Roaster Building #5

Five, 9,000 square foot levels, and one 4,500 square foot level on the Roaster Building #5 were sampled to identify asbestos contaminated dust/debris. The levels are identified as Level 1-6, from the bottom to the top **including** the basement level. Each 9,000 square foot level was sectioned into 18 x 5 or 90 total grid nodes. The 4,500 square foot level was sectioned into 9 x 5 or 45 total grid nodes. Each grid node was 100 square feet in size.

Each 9,000 square foot level was further divided into four (4) Sampling Areas. The four sampling areas for the 9,000 square foot levels each contained 5 x 5 (25) and/or 4 x 5 (20) total grid nodes. Sample results are reported by Sample Area and are representative of an area approximately 2250 to 2500 square foot in size.

The 4,500 square foot level was divided into two (2) sampling areas. The two sampling areas for the 4,500 square foot levels each contained 4 x 5 (20) or 5 x 5 (25) total grid nodes. Sample results are reported by Sample Area and are representative of an area approximately 2000 to 2500 square foot in size.

Horizontal surfaces within 10 random grid nodes which contained dusts and debris were sampled

within the Sample Area. Suspect ACM's within the grid nodes were noted and assumed to be contaminated within a 3 foot distance of the suspect ACM.

The first level (basement) contained four piles of zinc laden dust/debris. Grid sampling was not performed on the first level of the Roaster Building #5. However, bulk samples were obtained from each dust/debris pile. A schematic of the Sampling Areas, grid spacing and grids sampled are included in Appendix A. Sample location notes are attached in Appendix B.

## 3.3 SAMPLING PROTOCOL

A sampling protocol was developed which would maximize sample coverage yet provide some degree of sensitivity necessary to characterize each floor.

A one hundred cubic centimeter dust sample was obtained from ten random grid nodes within each Sample Area. The ten samples were composited and homogenized in a stainless steel bowl, and a one half cup representative grab sample from the composited and homogenized group was placed in a labeled, sealable, zip-loc baggy.

Sample grids which were visibly occupied by suspect ACM's were not included in the sampling area. Grid nodes containing suspect ACM's in a portion of the grid node were included within the Sampling Area. However, dust samples were not obtained within three feet of any visually identified suspect ACM's. This sampling procedure allows for space maximization under the existing project constraints. A detail of areas that were sampled and or excluded because of the presence of visible ACM's is attached in Appendix C.

A number of grid nodes within the Sample Area did not contain any horizontal sample space due to building and floor design (open spaces, grating, etc.). **Note: All visually identified ACM's have been given a 3 foot zone of assumed contamination.**

## 3.4 Laboratory/Analytical

Forty-two (42) samples of zinc laden dust/debris were composited from a total of 420 samples obtained from the Roaster Floor Building and Roaster Building #5 in conjunction with this zinc dust/Asbestos Assessment Survey.

The samples were submitted to Mountain Laboratories on February 24, 1993 for analysis. Mountain Laboratories participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for Bulk Asbestos Analysis, governed by the National Institute for Standards and Technology (NIST) - NVLAP I.D. #1890. Sample analysis was performed to determine asbestos type and content using Polarized Light Microscopy, supplemented by Dispersion Staining (PLM/DS) in accordance with the following methodologies:

USEPA "Interim Method for the Dispersion of Asbestos in Bulk Insulation Samples",(40 CFR Part 763, Subpart F, Appendix A, May 27, 1982);

ASTM Draft "Standard Method for Asbestos Containing Materials by Polarized Light Microscopy", (Committee D22.05, January 14, 1988).

## 3.5 Quality Assurance / Quality Control

The quality assurance/quality control(QA/QC) program of Mountain Laboratories is comprised of three primary elements: in-house or proprietary quality control, inter-laboratory quality control with non-affiliated laboratories, and the publicly available and sponsored quality assurance programs.

The proprietary quality control program is the most rigorous of the three aspects of quality control employed:

a. Periodic QC is performed at a minimum rate of 10% of all analyses performed. With this type of QC, the sample is re-analyzed and results compared with the original analysis. Any corrections or adjustments are agreed upon or presided over by the senior analyst. **10% QA/QC has been completed and is within acceptable levels for the samples submitted to Mountain Laboratories for analysis from the Roaster Floor Building and Roaster Building #5.**

b. When an analyst is uncertain about any part of an analysis or needs another opinion, a "voluntary" analysis is employed, in which any number of analysts compare results and confer until a consensus is reached.

c. Any adjustments or corrections to analyses are made by the senior analyst. All Quality Control analyses are recorded in the ALAS system and the QC analyst signs or initials the analysis sheet.

d. With certain types of analyses--particularly air sample analyses--"blanks" are also analyzed to determine background levels of contamination inherent in the sampling and preparation methods. These values are statistically weighed and subtracted from analytical results to more accurately reflect the reality of the sampling situation.

Inter-laboratory QA/QC is performed via ground or air courier services that ship asbestos containing material. All participants are independent laboratories. With the inter-laboratory QC program, batches of samples are circulated between laboratories. The analysts in each laboratory analyze all the samples by their particular methods of analysis and the results from each laboratory are statistically compiled to determine the precision between laboratories.

For samples with known concentrations, the relative accuracy is also assessed statistically. For in-house purposes, the laboratory manager may also choose to delineate individual performances on a per-analyst basis.

The publicly available QA/QC programs, such as the Proficiency Analytical Testing administered by the American Industrial Hygiene Association (AIHA), the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology, the Asbestos Analysis Registry an AIHA program are kept current in the QA/QC program, where applicable. The minimum requirements for each of these programs, and any other programs that apply, are incorporated as a starting point in the laboratory setting and are improved upon wherever possible.

## 3.6 Sample Processing

Mountain Laboratories utilizes a microcomputer for Chain of Custody Record to track all samples which are received at our facility. The Chain of Custody Record is initiated at the time the samples arrive at the lab and concluded when the data is archive in storage indefinitely and samples retained for a period of 6 months. The structure of the record is designed to be consistent with the requirements for maintaining a proficient status under NVLAP accreditation and the Code of Federal Regulations, 40 CFR Part 763 (AHERA Regulations), October 30, 1987.

Upon arrival of a sample package to Mountain Laboratories, the sample coordinator will initiate the required steps consistent with the Chain of Custody Record. Mountain Laboratories, using the ALAS system, assigns an I.D. Number to each individual sample, as well as a project number to each batch of samples it receives. These numbers are generated by the ALAS system and are marked on each sample. Mountain Laboratories identification system will be used to identify each sample uniquely and also serve as a cross reference to each clients I.D. system. After the logging system has been completed, the samples(s) will be sent to the appropriate department for processing.

The final results are stored in a data base developed by Mountain Laboratories professional staff. Final reports are generated, and the sorted data is saved in the data base and backed up on floppy disks.

# 4.0 CONCLUSIONS

Our assessment survey findings and related report conclusions are based on information obtained from our site observations and sample analysis. This assessment process yields conclusions that are used to judge the likelihood of significant asbestos-related issues existing that would adversely impact Pintlar Corporation regarding the recovery of zinc laden dust in these buildings. Relative to the Roaster Floor Building, Bunker Hill Complex, Kellogg, Idaho, the following observations and conclusions are recorded below. Sample results from the Roaster Floor Building and Roaster Building Number 5 are summarized below on Table I and Table II, respectively. Hard copies of the laboratory results are attached in Appendix D. Sample Areas containing trace or greater amounts of asbestos contamination are shown in Appendix E and Appendix C. Asbestos laboratory certifications and accreditation is attached in Appendix F.

**TABLE I**
Zinc Dust Sample Results: Roaster Floor Building

| Floor | Sample No. | Asbestos Content | Comments |
|---|---|---|---|
| 1 | RFB-1-SA1 | No Detectable | Zinc Dust |
| | RFB-1-SA2 | No Detectable | CE 1% Zinc Dust |
| | RFB-1-SA3 | No Detectable | CE 1% Zinc Dust |
| | RFB-1-SA4 | CH 2% AM 2% | GL 1% Zinc Dust |
| | RFB-1-SA5 | No Detectable | Zinc Dust |
| 2 | RFB-2-SA1 | No Detectable | CE 1% Zinc Dust |
| | RFB-2-SA2 | No Detectable | Zinc Dust |
| | RFB-2-SA3 | No Detectable | CE 2% Zinc Dust |
| | RFB-2-SA4 | Trace CH | CE 1% Zinc Dust |
| | RFB-2-SA5 | CH 2% | Zinc Dust |
| 3 | RFB-3-SA1 | No Detectable | CE 1% Zinc Dust |
| | RFB-3-SA2 | No Detectable | CE 1% Zinc Dust |
| | RFB-3-SA3 | No Detectable | CE 1% Zinc Dust |
| | RFB-3-SA4 | No Detectable | CE 1% Zinc Dust |
| | RFB-3-SA5 | No Detectable | Zinc Dust |
| 4 | RFB-4-SA1 | No Detectable | CE 1% Zinc Dust |
| | RFB-4-SA2 | Trace CH | CE 1% Zinc Dust |
| | RFB-4-SA3 | CH 2% | Zinc Dust |
| | RFB-4-SA4 | No Detectable | Zinc Dust |
| | RFB-4-SA5 | Trace CH | Zinc Dust |

CE - Cellulose CH - Chrysotile AM - Amosite
CR - Crocidolite GL - Fibrous Glass

**TABLE II**
**Zinc Dust Sample Results: Roaster Building #5**

| Floor | Sample No. | Asbestos Content | Comments |
|---|---|---|---|
| 1 | RB5-P1 | No Detectable | Zinc Dust |
| | RF5-P2 | No Detectable | Zinc Dust |
| | RB5-P3 | No Detectable | Zinc Dust |
| | RB5-P4 | No Detectable | Zinc Dust |
| 2 | RB5-2-SA1 | No Detectable | Zinc Dust |
| | RB5-2-SA2 | CR 2% | Zinc Dust |
| | RB5-2-SA3 | Trace CH | Zinc Dust |
| | RB5-2-SA4 | No Detectable | Zinc Dust |
| 3 | RFB-3-SA1 | No Detectable | Zinc Dust |
| | RFB-3-SA2 | No Detectable | Zinc Dust |
| | RFB-3-SA3 | No Detectable | Zinc Dust |
| | RFB-3-SA4 | No Detectable | Zinc Dust |
| 4 | RFB-4-SA1 | No Detectable | Zinc Dust |
| | RFB-4-SA2 | Trace CH | Zinc Dust |
| | RFB-4-SA3 | No Detectable | Zinc Dust |
| | RFB-4-SA4 | No Detectable | CE 1% Zinc Dust |
| 5 | RFB-5-SA1 | No Detectable | Zinc Dust |
| | RFB-5-SA2 | No Detectable | Zinc Dust |
| | RFB-5-SA3 | No Detectable | Zinc Dust |
| | RFB-5-SA4 | No Detectable | CE 1% Zinc Dust |
| 6 | RFB-6-SA1 | No Detectable | Zinc Dust |
| | RFB-6-SA2 | No Detectable | Zinc Dust |

CE - Cellulose CH - Chrysotile AM - Amosite
CR - Crocidolite GL - Fibrous Glass

## 5.0 RECOMMENDATIONS

Consistent with our knowledge and understanding of environmental regulations, particularly as they apply to the potential liabilities associated with the presence of Asbestos Containing Building Materials in industrial facilities, relative to the Roaster Floor Building and the Roaster Building #5, Bunker Hill Superfund Site, Kellogg, Idaho, the following recommendations are made:

- Sample Areas which contain trace amounts or greater of asbestos may require additional sampling and analysis to further define the extent of contamination. PLM analysis for these areas should be analyzed by PLM/DS with supplemental point counting analytical procedures for greater sensitivity.

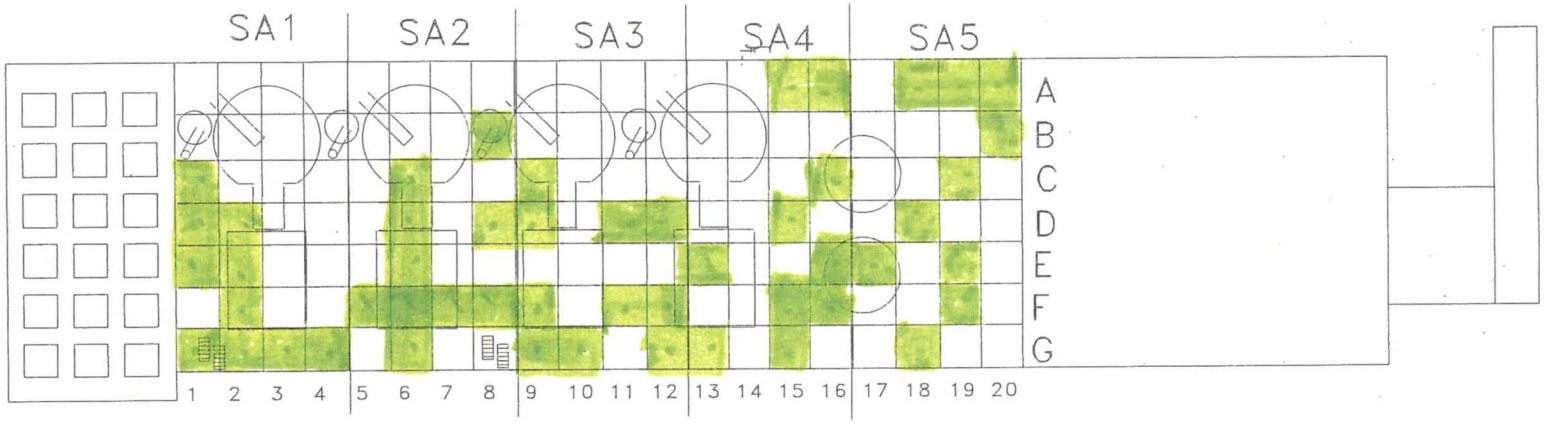
- In addition to the Sample Areas identified above, which contain trace amounts or greater of asbestos, any and all areas within the Roaster Floor Building and Roaster Building #5, in which zinc dust/debris removal work shall take place, must to be visually assessed for suspect ACM's. **Areas identified as containing suspect ACM's should be given a minimum three (3) foot buffer around the suspect ACM in which materials/dusts/debris may not be disturbed**. In addition, an OSHA Asbestos Competent Person or an Accredited Asbestos Inspector should be present during the VAC loader clean up, to visually identify suspect ACM's.

- Pursuant to EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP's), all Regulated Asbestos Containing Materials (RACM's) and Category II Non-Friable ACBM's must be removed prior to any renovation/demolition which would affect these materials. However, the EPA requires the assessment of all ACM's within a facility prior to renovation/demolition, even though only RACM's and Category II ACBM's need to be removed. Therefore, ACBM's within the facilities should be sampled, identified, and assessed. In addition, should access to vessels/roasters be required as a portion of the zinc dust/debris recovery impacted ACBM's and asbestos contaminated dust/debris within the affected areas must be abated prior to disturbance.

These findings and recommendations made herein are not to be construed as legal advice.

# APPENDIX A

## SAMPLE LOCATION DIAGRAM
## ROASTER FLOOR BUILDING & ROASTER BUILDING #5
## BUNKER HILL SUPERFUND SITE, KELLOGG, IDAHO




LEGEND

Sampled Grid

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
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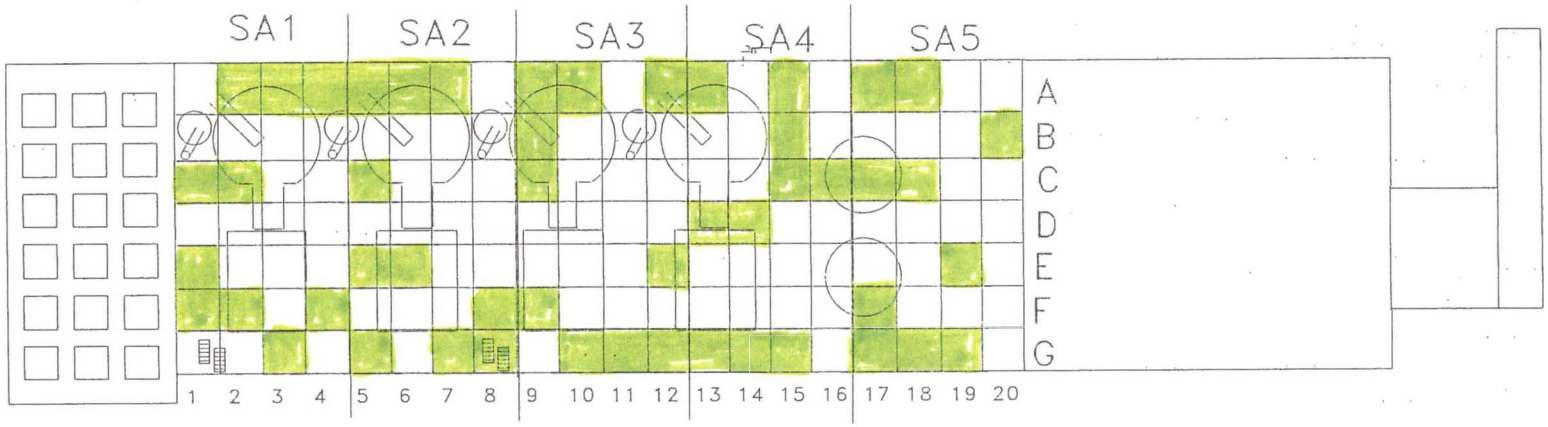



LEGEND

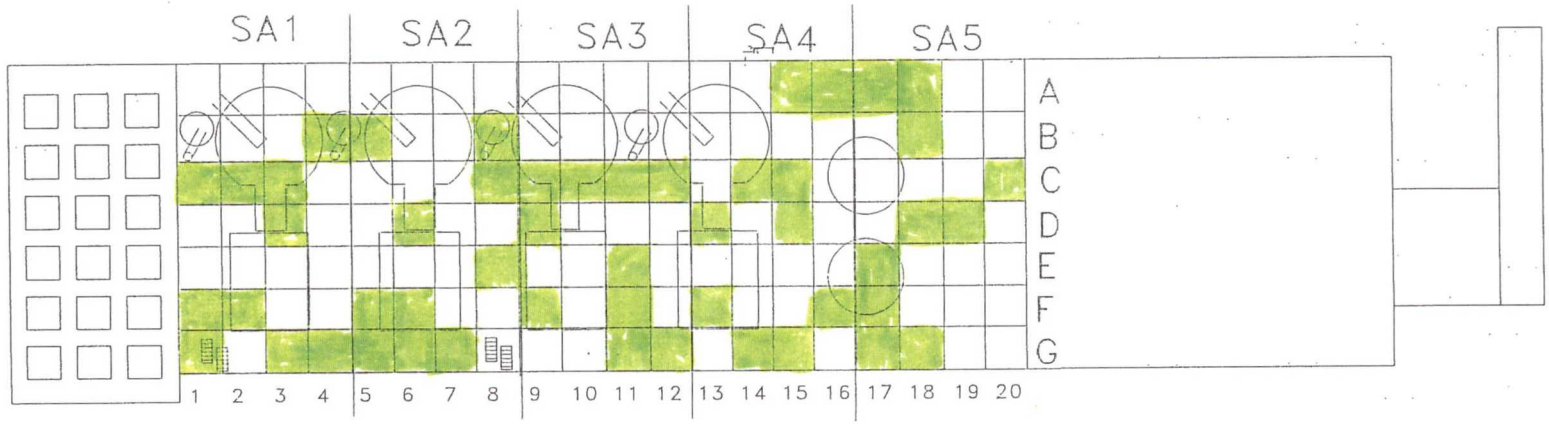
Sampled Grid

MCS Environmental

Roaster Floor Bldg. #9

Bunker Hill Superfund Site

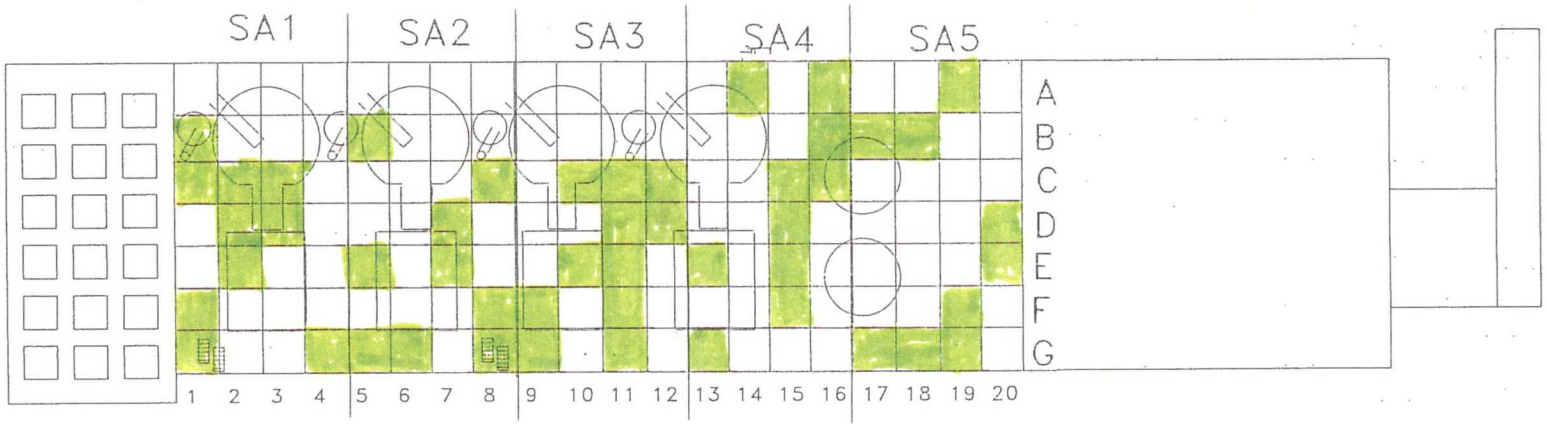
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
|---|---|---|
| Page __ of ___ | FLOOR #2 | |




LEGEND

Sampled Grid

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
| Page __ of ___ | FLOOR #3 | |




LEGEND

Sampled Grid

| MCS Environmental | | |
|---|---|---|
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
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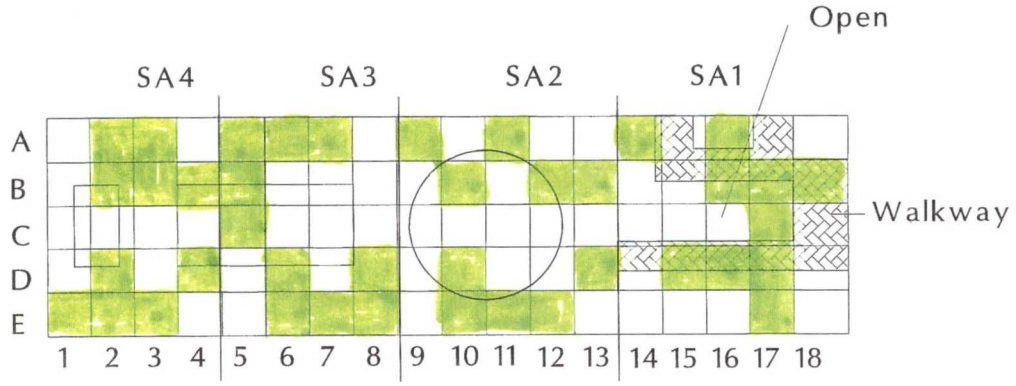


RB5

N

LEGEND

Sampled Grid

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
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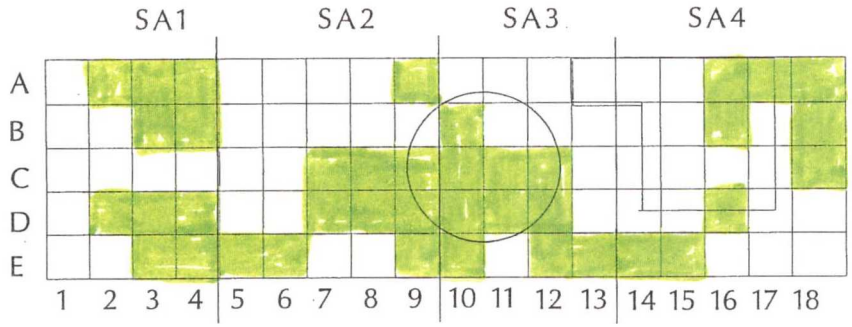


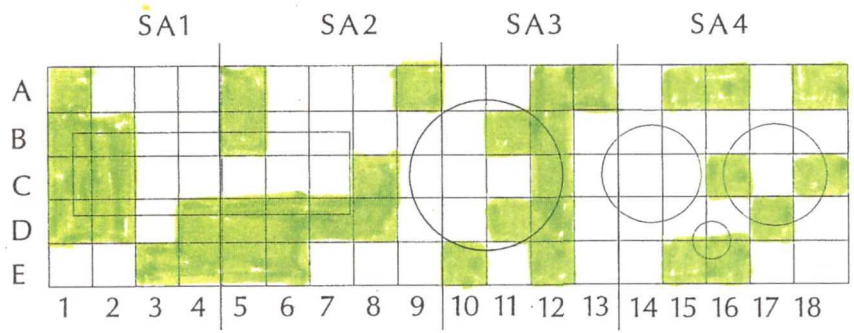

RB5

N

LEGEND

Sampled Grid

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Bldg. #5<br>Bunker Hill Superfund Site | | |
| MCS Job No:<br>A94-001 | Date<br>3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #3 | |



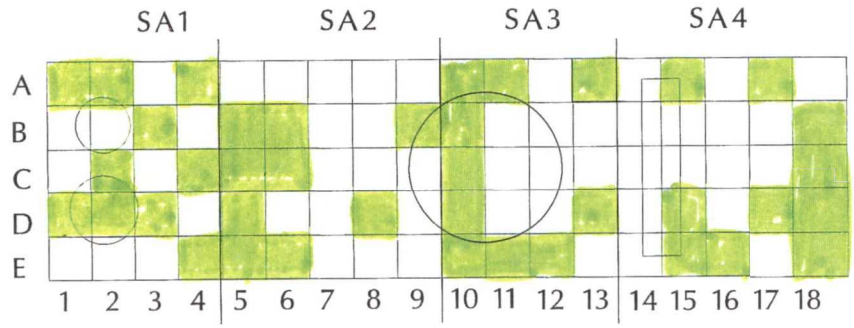

RB5

←N

LEGEND

Sampled Grid

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5<br>Bunker Hill Superfund Site | | |
| MCS Job No:<br>A94-001 | Date<br>3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #4 | |



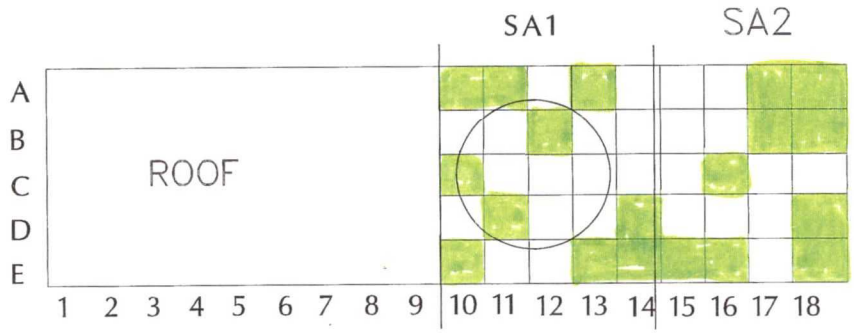

RB5

N

LEGEND

Sampled Grid

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5<br>Bunker Hill Superfund Site | | |
| MCS Job No:<br>A94-001 | Date<br>3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #5 | |




RB5

←N→

LEGEND

Sampled Grid

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Bldg. #5<br>Bunker Hill Superfund Site | | |
| MCS Job No:<br>A94-001 | Date<br>3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #6 | |

# APPENDIX B

## SAMPLE LOCATION NOTES
## ROASTER FLOOR BUILDING & ROASTER BUILDING #5,
## BUNKER HILL SUPERFUND SITE, KELLOGG, IDAHO

Roaster Floor Building
Sample Location Notes

| Sample Area | Sample Number | Description |
|---|---|---|
| Floor 1/SA1 | G1 | Floor |
| | G2 | Floor |
| | G3 | Floor |
| | G4 | Floor |
| | F2 | Beam 2ft |
| | E2 | Beam 2ft |
| | D2 | Floor |
| | D1 | Hand Railing |
| | E1 | Floor |
| | C1 | Floor |
| Floor 1/SA2 | F5 | Floor |
| | F7 | Floor |
| | F8 | Railing 2ft |
| | D6 | Railing 2ft |
| | C6 | Floor |
| | D8 | Railing |
| | B8 | Floor |
| | E7 | Overhead Girder |
| | F7 | Overhead Girder |
| | G6 | Floor |

| | | |
|---|---|---|
| Floor 1/SA3 | F12 | Railing 2ft |
| | F11 | Overhead Girder |
| | D11 | Overhead Girder |
| | D12 | Floor |
| | G10 | Floor |
| | F9 | Railing 2ft |
| | G9 | Floor |
| | D9 | Railing 2ft |
| | C9 | floor |
| | G12 | Floor |
| Floor 1/SA4 | G13 | Floor |
| | E13 | Overhead Girder |
| | G15 | Floor |
| | F15 | Railing |
| | D15 | Overhead Girder |
| | A15 | Floor |
| | A16 | Floor |
| | C16 | Table |
| | F16 | Floor |
| | E16 | Floor |

| | | |
|---|---|---|
| Floor 1/SA5 | G18 | Railing |
| | F19 | Floor |
| | E19 | Floor |
| | E17 | Floor |
| | D18 | Floor |
| | C19 | Floor |
| | A19 | Stair Handrail |
| | A18 | Floor |
| | A20 | Floor |
| | B20 | Floor |
| Floor 2/SA1 | A2 | Floor |
| | C2 | Floor |
| | E1 | Floor |
| | C1 | Transformer Top |
| | F2 | Overhead Girder |
| | G3 | Floor |
| | F4 | Railing |
| | A4 | Floor |
| | A3 | Floor |
| | F1 | Railing |
| Floor 2/SA2 | G5 | Table Top |
| | E5 | Floor |
| | A5 | Floor |
| | A6 | Floor |
| | A7 | Floor |
| | F8 | Floor |
| | G8 | Floor |
| | G7 | Floor |
| | E6 | Overhead Railing |

| | | |
|---|---|---|
| | C5 | Overhead Pipe |
| Floor 2/SA3 | F9 | Overhead Railing |
| | C9 | Floor |
| | B9 | Hand Railing |
| | A9 | Floor |
| | A10 | Floor |
| | A12 | Floor |
| | G12 | Floor |
| | F11 | Hand Rail |
| | G11 | Hand Rail |
| | G10 | Transformer Top |
| Floor 2/SA4 | G13 | Floor |
| | D13 | Floor |
| | A13 | Hand Rail |
| | A15 | Electric Box, Top |
| | C15 | floor |
| | B15 | Railing |
| | G15 | Floor |
| | G14 | Floor |
| | D14 | Pipe Top |
| | C16 | Floor |
| Floor 2/SA5 | A17 | Floor |
| | A18 | Floor |
| | B20 | Floor |
| | C18 | Floor |
| | E19 | Floor |
| | G19 | Floor |
| | G18 | Floor |
| | G17 | Floor |

| | | |
|---|---|---|
| | F17 | Cabinet Top |
| | C17 | Floor |
| Floor 3/SA1 | G1 | Floor |
| | F1 | Overhead Beam |
| | C1 | Railing |
| | C2 | Floor |
| | C3 | Overhead Beam |
| | D3 | Overhead Beam |
| | B4 | Floor |
| | G4 | Railing |
| | G3 | floor |
| | F2 | Floor |
| Floor 3/SA2 | G5 | Railing |
| | F5 | Overhead Beam |
| | B5 | Overhead Pipe |
| | D6 | Railing |
| | C8 | Overhead Beam |
| | E8 | Overhead Beam |
| | B8 | Floor |
| | G7 | Floor |
| | G6 | Floor |
| | F6 | Floor |
| Floor 3/SA3 | D9 | Stair |
| | C9 | Overhead Beam |
| | C10 | Overhead Beam |
| | C11 | Railing |
| | C12 | Overhead Beam |
| | G12 | Stair |
| | G11 | floor |

| | | |
|---|---|---|
| | F11 | Overhead Beam |
| | F9 | Overhead Beam |
| | E11 | Floor |
| Floor 3/SA4 | D13 | Overhead Beam |
| | F13 | Overhead Beam |
| | G14 | Railing |
| | G15 | floor |
| | A16 | Floor |
| | A15 | Floor |
| | C14 | Railing |
| | C15 | Overhead Beam |
| | F16 | Overhead Beam |
| | D15 | Overhead Beam |
| Floor 3/SA5 | A17 | floor |
| | A18 | Floor |
| | B18 | Floor |
| | C20 | Floor |
| | D19 | Floor |
| | G18 | Floor |
| | G17 | Railing |
| | F17 | Overhead Beam |
| | E17 | Overhead Beam |
| | D18 | Overhead Beam |

| | | |
|---|---|---|
| Floor 4/SA1 | G1 | Railing |
| | F1 | Floor |
| | E2 | Floor |
| | D2 | Floor |
| | C1 | Floor |
| | C2 | Stair |
| | B1 | floor |
| | G4 | Railing |
| | D4 | Conveyor Top |
| | C4 | Conveyor Top |
| Floor 4/SA2 | G5 | Floor |
| | E5 | Floor |
| | B5 | Stair (2nd) |
| | G6 | Floor |
| | G8 | Pipe |
| | F7 | Conveyor Motor |
| | E7 | Conveyor Belt |
| | D7 | floor |
| | C8 | Stair (2nd) |
| | F8 | Stair (4th) |
| Floor 4/SA3 | F9 | Floor |
| | G9 | Floor |
| | E10 | Floor |
| | C10 | Stair |
| | G11 | Floor |
| | F11 | Overhead Beam |
| | E11 | Conveyor Motor |
| | D12 | Conveyor Belt |
| | C11 | Conveyor Belt |

| | | |
|---|---|---|
| | C12 | Stair (2nd) |
| Floor 4/SA4 | G13 | Railing |
| | E13 | floor |
| | C15 | Stair |
| | F15 | Railing |
| | E15 | Floor |
| | D15 | floor |
| | C16 | Railing |
| | B16 | Floor |
| | A16 | Floor |
| | A14 | floor |
| Floor 4/SA5 | G17 | Floor |
| | G18 | Floor |
| | G19 | Floor |
| | F19 | Railing |
| | E20 | Floor |
| | D20 | Floor |
| | A19 | Floor |
| | B18 | Railing |
| | B17 | Floor |
| | C17 | Floor |

Roaster Building Number 5
Sample Location Notes

| Floor/Sample Area | Sample Number | Description |
|---|---|---|
| Floor2/SA1 | E17 | Floor |
| | D17 | Floor |
| | C17 | Floor |
| | B17 | Floor |
| | B18 | Floor |
| | A16 | Floor |
| | B16 | Floor |
| | A14 | Floor |
| | D15 | Floor |
| | D16 | Floor |
| Floor 2/SA2 | E12 | Rail |
| | D13 | Rail |
| | E11 | Floor |
| | D10 | Floor |
| | E10 | Rail |
| | A9 | Rail |
| | B10 | Floor |
| | A11 | Floor |
| | B12 | Floor |
| | B13 | Floor |

| | | |
|---|---|---|
| Floor 2/SA3 | E8 | Rail |
| | D8 | Rail |
| | E6 | Rail |
| | D6 | Floor |
| | E7 | Floor |
| | A7 | Rail |
| | B5 | Rail |
| | C5 | Floor |
| | A5 | Floor |
| | A6 | Floor |
| Floor2/SA4 | E1 | Rail |
| | E2 | Rail |
| | E3 | Rail |
| | D4 | Floor |
| | D2 | Floor |
| | B2 | Rail |
| | A3 | Rail |
| | B3 | Floor |
| | B4 | Floor |
| | A2 | Floor |
| Floor3/SA1 | A2 | Rail |
| | B3 | Rail |
| | B4 | Rail |
| | A4 | Rail |
| | A3 | Rail |
| | D2 | Rail |
| | D3 | Rail |
| | D4 | Rail |
| | E4 | Rail |

| | | |
|---|---|---|
| | E3 | Rail |
| Floor 3/SA2 | E5 | Floor |
| | E6 | Floor |
| | D7 | Rail |
| | D8 | Rail |
| | C8 | Floor |
| | D9 | Floor |
| | C7 | Floor |
| | E9 | Floor |
| | C9 | Floor |
| | A9 | Floor |
| Floor 3/SA3 | E10 | |
| | D10 | Floor |
| | C11 | Floor |
| | B10 | Floor |
| | C10 | Floor |
| | E12 | Floor |
| | D11 | Floor |
| | C10 | Floor |
| | C12 | Floor |
| | D12 | Floor |
| Floor 3/SA4 | E13 | Rail |
| | E14 | Rail |
| | E15 | Rail |
| | B18 | Rail |
| | C18 | Rail |
| | A17 | Rail |
| | A18 | Rail |

| | | |
|---|---|---|
| | A16 | Rail |
| | B16 | Rail |
| | D16 | Rail |
| Floor 4/SA1 | A1 | Floor |
| | B2 | Floor |
| | C1 | floor |
| | B1 | Floor |
| | C2 | Floor |
| | D4 | Floor |
| | E3 | Floor |
| | D2 | Floor |
| | D1 | Floor |
| | E4 | Floor |
| Floor 4/SA2 | D5 | Floor |
| | E6 | Floor |
| | D6 | Floor |
| | E5 | Floor |
| | D7 | Floor |
| | D8 | Floor |
| | C8 | Floor |
| | A9 | Floor |
| | A5 | Floor |
| | B5 | Floor |

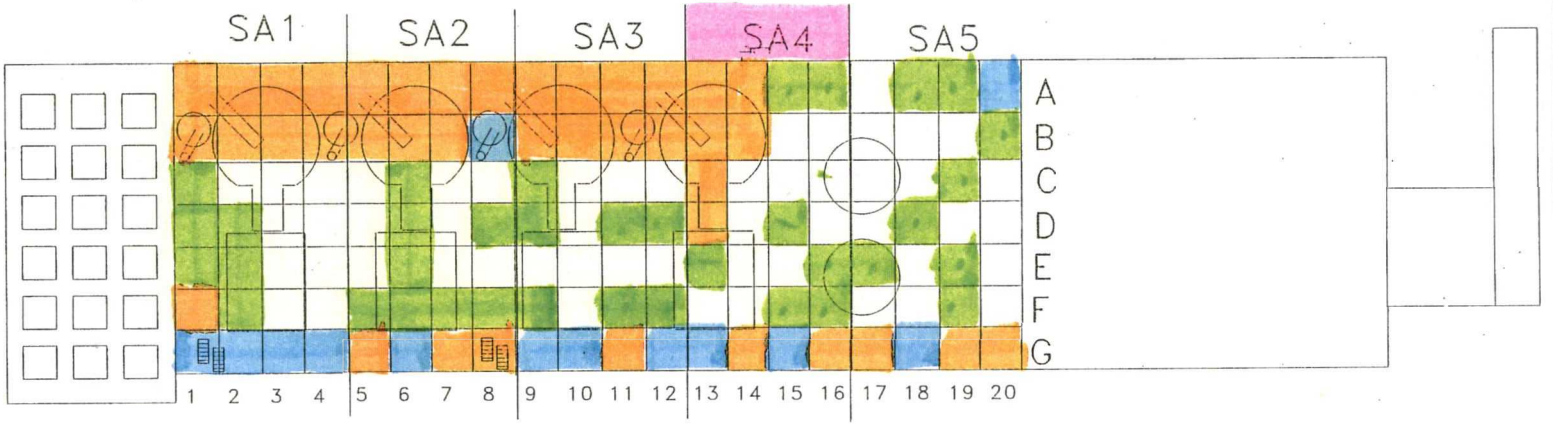
| | | |
|---|---|---|
| Floor 4/SA3 | E10 | Floor |
| | D11 | Floor |
| | E12 | Floor |
| | D12 | Floor |
| | B12 | Floor |
| | A13 | Floor |
| | A12 | Floor |
| | B12 | Floor |
| | C12 | Floor |
| | B11 | Floor |
| Floor 4/SA4 | E15 | Floor |
| | E16 | Floor |
| | D17 | Floor |
| | C16 | Floor |
| | A16 | Floor |
| | A15 | Floor |
| | C16 | Floor |
| | C18 | Floor |
| | D17 | Floor |
| | A18 | Floor |
| Floor 5/SA1 | D1 | Floor |
| | D3 | Floor |
| | D2 | Floor |
| | C2 | floor |
| | B3 | Floor |
| | A2 | Floor |
| | A1 | Floor |
| | A4 | Floor |
| | C4 | Floor |

| | | |
|---|---|---|
| | E4 | Floor |
| Floor 5/SA2 | E5 | Floor |
| | D5 | Floor |
| | C5 | Floor |
| | A5 | Floor |
| | B6 | Floor |
| | C6 | floor |
| | E6 | Floor |
| | D8 | Floor |
| | C9 | Floor |
| | B9 | Floor |
| Floor 5/SA3 | A10 | Floor |
| | C10 | Floor |
| | E10 | Floor |
| | E11 | Floor |
| | E12 | Floor |
| | D13 | Floor |
| | A13 | Floor |
| | A11 | Floor |
| | B10 | Floor |
| | D10 | Floor |
| Floor 5/SA4 | E15 | Floor |
| | D15 | Floor |
| | E16 | Floor |
| | D17 | Floor |
| | E18 | Floor |
| | D18 | Floor |
| | C18 | Floor |
| | B18 | Floor |

| | | |
|---|---|---|
| | A17 | Floor |
| | B15 | Floor |
| Floor 6/SA1 | E10 | Floor |
| | C10 | Floor |
| | A10 | Floor |
| | A11 | Floor |
| | B12 | Pipe |
| | A13 | Floor |
| | D14 | Floor |
| | F14 | Floor |
| | F13 | Floor |
| | D11 | Floor |
| Floor 6/SA2 | E15 | Floor |
| | E16 | Floor |
| | E18 | Floor |
| | D18 | Floor |
| | B18 | Floor |
| | A18 | Floor |
| | B17 | Floor |
| | A17 | Floor |
| | C17 | Floor |
| | C16 | Floor |

# APPENDIX C

## SAMPLE AREA DETAIL DIAGRAM
## ROASTER FLOOR BUILDING & ROASTER BUILDING #5
## BUNKER HILL SUPERFUND SITE, KELLOGG, IDAHO




LEGEND

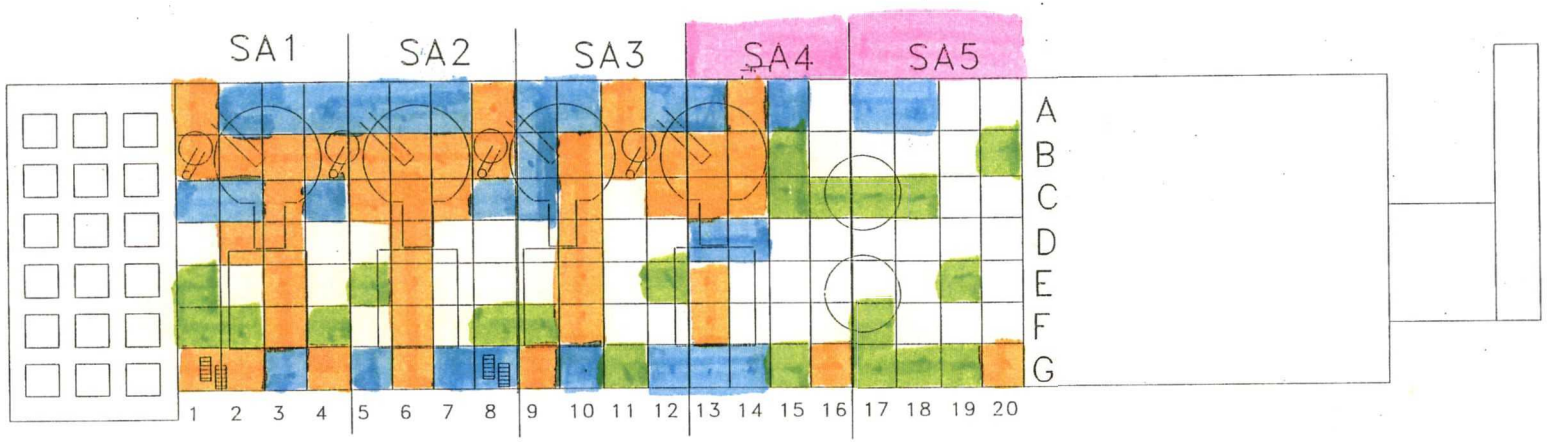
SA1 — Sample Area with Trace or Greater Asbestos Detected

No Sample Obtained, Grid Contained Suspect ACM

Sample Obtained 3 feet from ACM

Sampled Grid

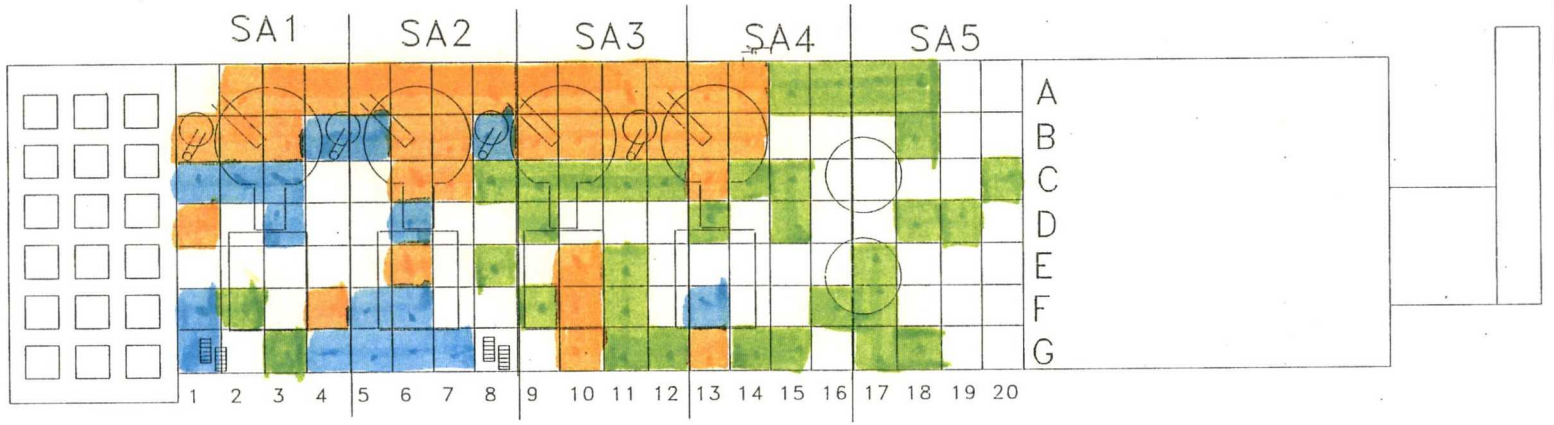
| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
| Page __ of ___ | FLOOR #1 | |




LEGEND

| | |
|---|---|
| SA1 | Sample Area with Trace or Greater Asbestos Detected |
| | No Sample Obtained, Grid Contained Suspect ACM |
| | Sample Obtained 3 feet from ACM |
| | Sampled Grid |

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
| Page __ of ___ | FLOOR #2 | |




LEGEND

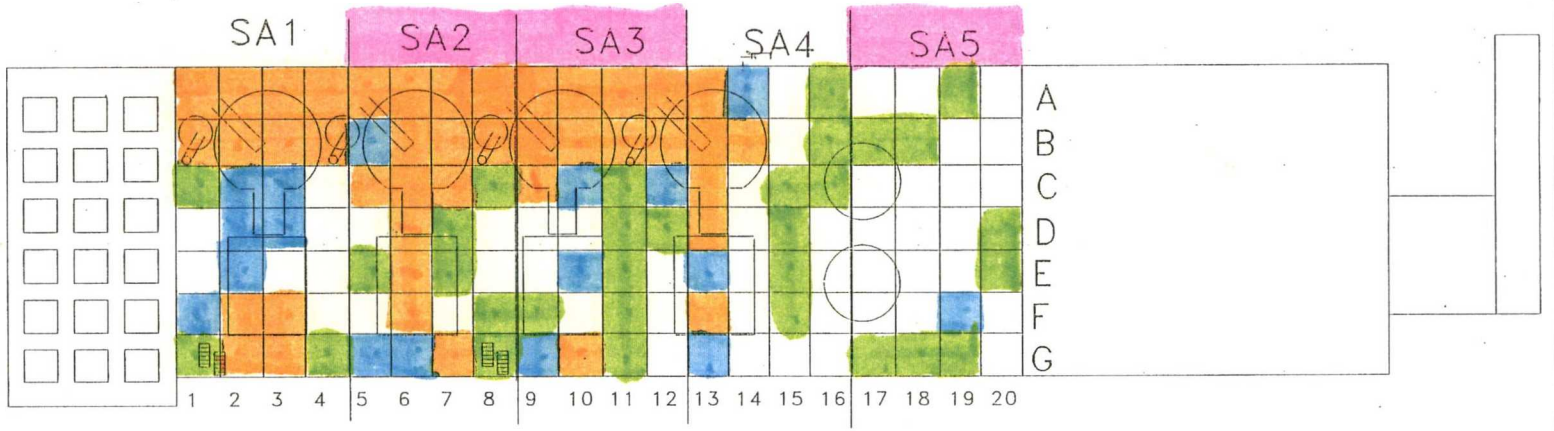
| | |
|---|---|
| SA1 | Sample Area with Trace or Greater Asbestos Detected |
| | No Sample Obtained, Grid Contained Suspect ACM |
| | Sample Obtained 3 feet from ACM |
| | Sampled Grid |

# MCS Environmental

## Roaster Floor Bldg. #9

Bunker Hill Superfund Site

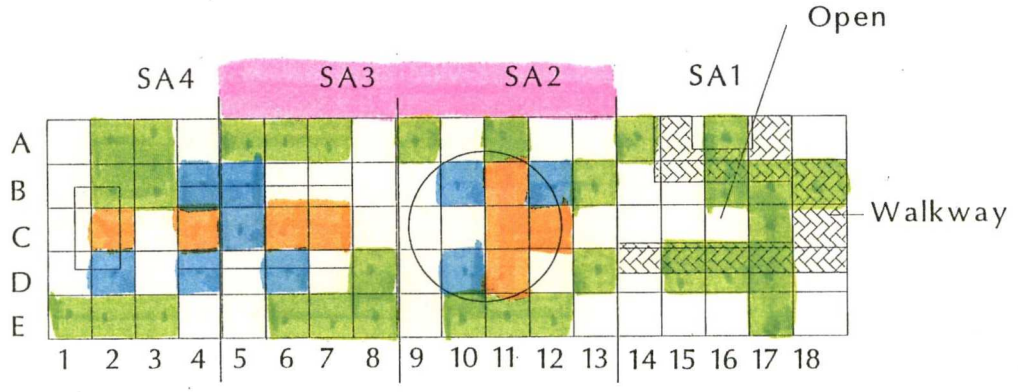
| MCS Job No: | Date | By: BLR |
|---|---|---|
| A94-001 | 1/7/94 | |
| Page __ of ___ | FLOOR #3 | |




LEGEND

| | |
|---|---|
| SA1 | Sample Area with Trace or Greater Asbestos Detected |
| | No Sample Obtained, Grid Contained Suspect ACM |
| | Sample Obtained 3 feet from ACM |
| | Sampled Grid |

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
| Page __ of ___ | FLOOR #4 | |



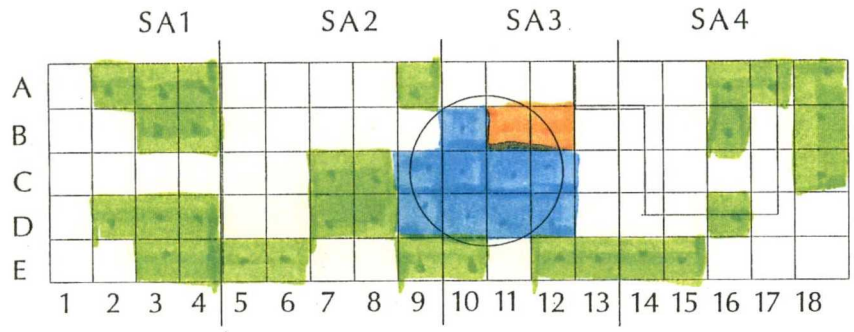

RB5

←N

LEGEND

| | |
|---|---|
| SA1 | Sample Area with Trace or Greater Asbestos Detected |
| | No Sample Obtained, Grid Contained Suspect ACM |
| | Sample Obtained 3 feet from ACM |
| | Sampled Grid |

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #2 | |




RB5

←N→

LEGEND

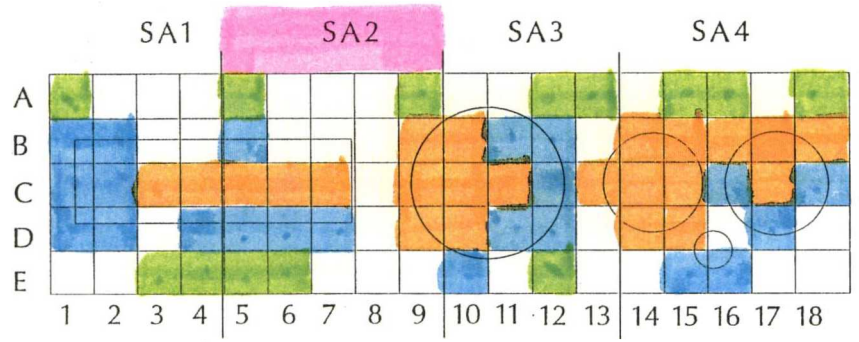
SA1 — Sample Area with Trace or Greater Asbestos Detected

No Sample Obtained, Grid Contained Suspect ACM

Sample Obtained 3 feet from ACM

Sampled Grid

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #3 | |




RB5

←N→

LEGEND

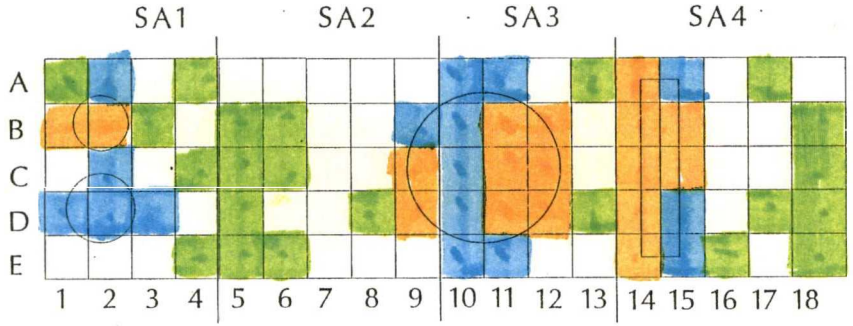
SA1 Sample Area with Trace or Greater Asbestos Detected

No Sample Obtained, Grid Contained Suspect ACM

Sample Obtained 3 feet from ACM

Sampled Grid

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #4 | |




RB5

←N—

LEGEND

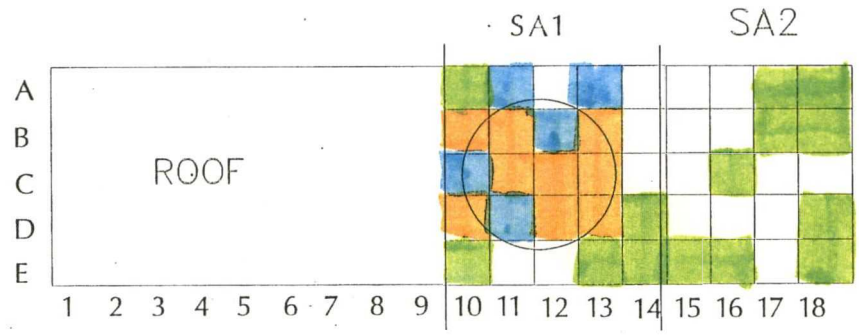
SA1 Sample Area with Trace or Greater Asbestos Detected

No Sample Obtained, Grid Contained Suspect ACM

Sample Obtained 3 feet from ACM

Sampled Grid

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #5 | |




RB5

←N—

LEGEND

SA1 Sample Area with Trace or Greater Asbestos Detected

No Sample Obtained, Grid Contained Suspect ACM

Sample Obtained 3 feet from ACM

Sampled Grid

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #6 | |

# APPENDIX D

## PETROGRAPHIC ANALYSIS SHEETS
## ROASTER FLOOR BUILDING & ROASTER BUILDING #5
## BUNKER HILL SUPERFUND SITE, KELLOGG, IDAHO

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RFB-1

Client: PINTLAR CORPORATION

Sample Identification

| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0228-004-01 | No Detectable | SOIL | 100% |
| | Client Id #: RFB-1-SA1 | | | |
| 2). | B94-0228-004-02 | No Detectable | CE 1%<br>SOIL | 99% |
| | Client Id #: RFB-1-SA2 | | | |
| 3). | B94-0228-004-03 | No Detectable | CE 1%<br>SOIL | 99% |
| | Client Id #: RFB-1-SA3 | | | |
| 4). | B94-0228-004-04 | CH 2% AM 2% | GL 1%<br>SOIL | 95% |
| | Client Id #: RFB-1-SA4 | | | |
| 5). | B94-0228-004-05 | No Detectable | SOIL | 100% |
| | Client Id #: RFB-1-SA5 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RFB-2

Client: PINTLAR CORPORATION

Sample Identification

| Sample No. | Asbestos Content | Comments | |
|---|---|---|---|
| B94-0228-006-01 | No Detectable | CE 1% | |
| | | SOIL | 99% |
| Client Id #: RFB-2-SA1 | | | |
| B94-0228-006-02 | No Detectable | | |
| | | SOIL | 100% |
| Client Id #: RFB-2-SA2 | | | |
| B94-0228-006-03 | No Detectable | CE 2% | |
| | | SOIL | 98% |
| Client Id #: RFB-2-SA3 | | | |
| B94-0228-006-04 | Tra CH | CE 1% | |
| | | SOIL | 98% |
| Client Id #: RFB-2-SA4 | | | |
| B94-0228-006-05 | CH 2% | | |
| | | SOIL | 98% |
| Client Id #: RFB-2-SA5 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RFB-3

Client: PINTLAR CORPORATION

Sample Identification

| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0228-005-01 | No Detectable | CE 1% | |
| | | | SOIL | 99% |
| | Client Id #: RFB-3-SA1 | | | |
| 2). | B94-0228-005-02 | No Detectable | CE 1% | |
| | | | SOIL | 99% |
| | Client Id #: RFB-3-SA2 | | | |
| ). | B94-0228-005-03 | No Detectable | CE 1% | |
| | | | SOIL | 99% |
| | Client Id #: RFB-3-SA3 | | | |
| ). | B94-0228-005-04 | No Detectable | CE 1% | |
| | | | SOIL | 99% |
| | Client Id #: RFB-3-SA4 | | | |
| ). | B94-0228-005-05 | No Detectable | | |
| | | | SOIL | 100% |
| | Client Id #: RFB-3-SA5 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RFB-4

Client: PINTLAR CORPORATION

Sample Identification

| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0228-007-01 | No Detectable | CE 1%<br>ZINC DUST | 99% |
| | Client Id #: RFB-4-SA1 | | | |
| 2). | B94-0228-007-02 | Tra CH | CE 1%<br>ZINC DUST | 98% |
| | Client Id #: RFB-4-SA2 | | | |
| 3). | B94-0228-007-03 | CH 2% | ZINC DUST | 98% |
| | Client Id #: RFB-4-SA3 | | | |
| 4). | B94-0228-007-04 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RFB-4-SA4 | | | |
| 5). | B94-0228-007-05 | Tra CH | ZINC DUST | 99% |
| | Client Id #: RFB-4-SA5 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RB5

Client: PINTLAR CORPORATION

Sample Identification

| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0228-008-01 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-P1 | | | |
| 2). | B94-0228-008-02 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-P2 | | | |
| 3). | B94-0228-008-03 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-P3 | | | |
| 4). | B94-0228-008-04 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-P4 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RB5-2

Client: PINTLAR CORPORATION

Sample Identification

| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0228-009-01 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-2-SA1 | | | |
| 2). | B94-0228-009-02 | CR 2% | ZINC DUST | 98% |
| | Client Id #: RB5-2-SA2 | | | |
| 3). | B94-0228-009-03 | Tra CH | ZINC DUST | 99% |
| | Client Id #: RB5-2-SA3 | | | |
| 4). | B94-0228-009-04 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-2-SA4 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RB5-3

Client: PINTLAR CORPORATION

Sample Identification

| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0301-002-01 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-3-SA1 | | | |
| 2). | B94-0301-002-02 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-3-SA2 | | | |
| 3). | B94-0301-002-03 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-3-SA3 | | | |
| 4). | B94-0301-002-04 | No Detectable | CE 1%<br>ZINC DUST | 99% |
| | Client Id #: RB5-3-SA4 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RB5-4

Client: PINTLAR CORPORATION

Sample Identification

| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0301-001-01 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-4-SA1 | | | |
| 2). | B94-0301-001-02 | Tra CH | ZINC DUST | 99% |
| | Client Id #: RB5-4-SA2 | | | |
| 3). | B94-0301-001-03 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-4-SA3 | | | |
| 4). | B94-0301-001-04 | No Detectable | CE 1%<br>ZINC DUST | 99% |
| | Client Id #: RB5-4-SA4 | | | |

# BULK SAMPLE ANALYSIS SUMMARY

Project Title: RB5-5,6

Client: PINTLAR CORPORATION

Sample Identification

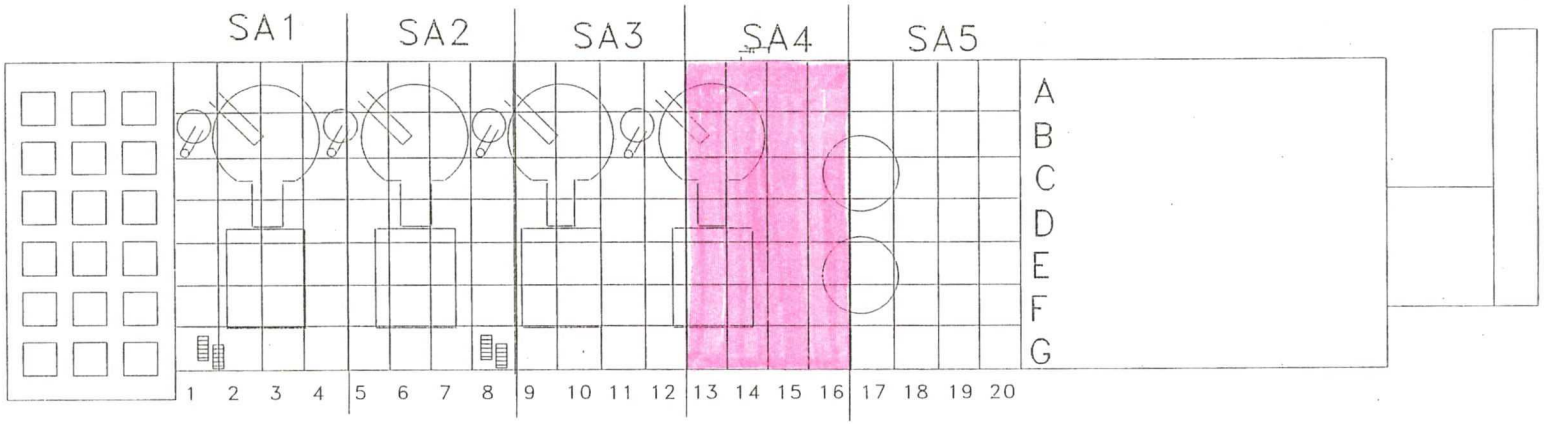
| | Sample No. | Asbestos Content | Comments | |
|---|---|---|---|---|
| 1). | B94-0228-010-01 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-5-SA1 | | | |
| 2). | B94-0228-010-02 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-5-SA2 | | | |
| 3). | B94-0228-010-03 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-5-SA3 | | | |
| 4). | B94-0228-010-04 | No Detectable | CE 1%<br>ZINC DUST | 99% |
| | Client Id #: RB5-5-SA4 | | | |
| 5). | B94-0228-010-05 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-6-SA1 | | | |
| 6). | B94-0228-010-06 | No Detectable | ZINC DUST | 100% |
| | Client Id #: RB5-6-SA2 | | | |

# APPENDIX E

## SAMPLE AREAS WITH TRACE OR GREATER ASBESTOS DIAGRAM
## ROASTER FLOOR BUILDING & ROASTER BUILDING #5
## BUNKER HILL SUPERFUND SITE, KELLOGG, IDAHO

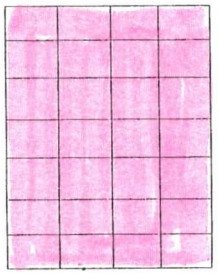
# APPENDIX E

## SAMPLE AREAS WITH TRACE OR GREATER ASBESTOS DIAGRAM
## ROASTER FLOOR BUILDING & ROASTER BUILDING #5
## BUNKER HILL SUPERFUND SITE, KELLOGG, IDAHO



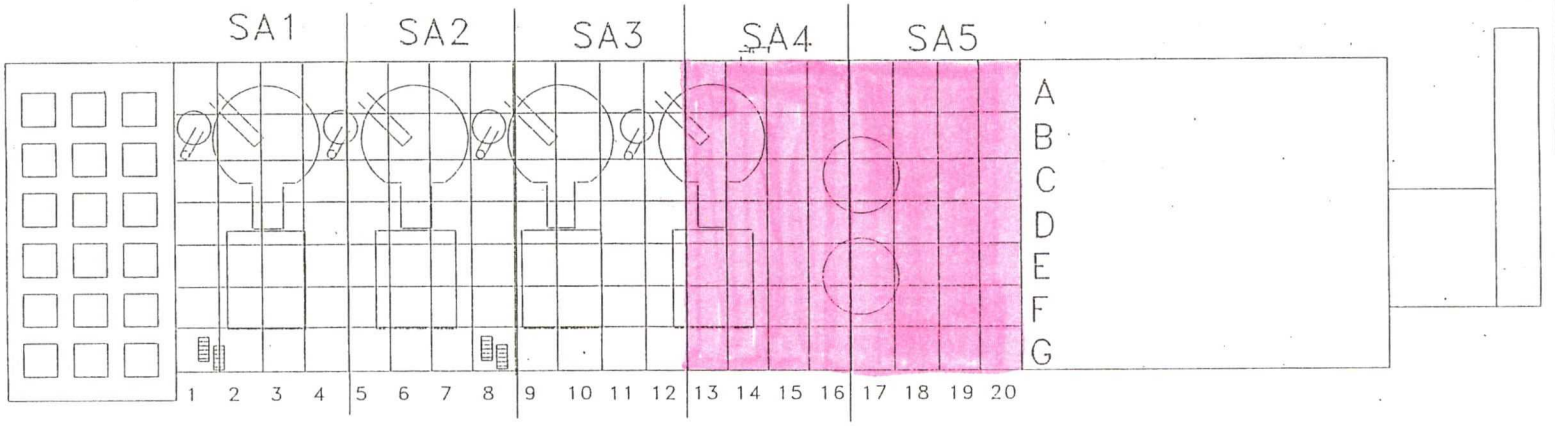

LEGEND

SA1



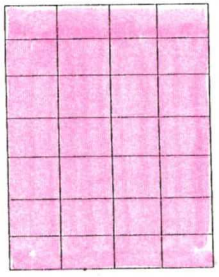
Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| | | |
|---|---|---|
| MCS Environmental | | |
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
| Page __ of ___ | FLOOR #1 | |




LEGEND

SA1



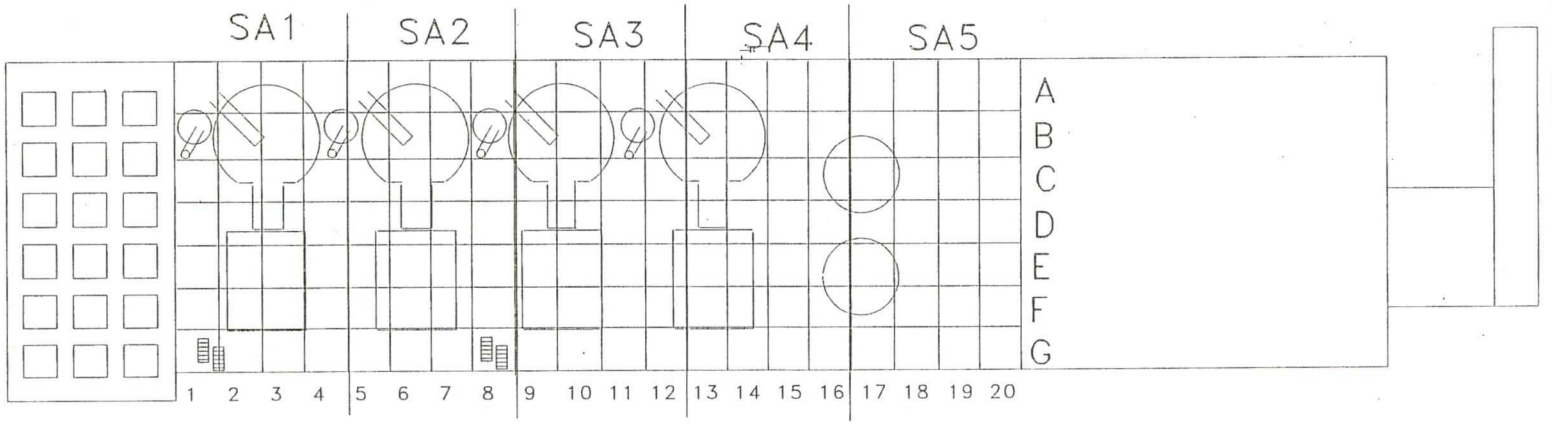
Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

MCS Environmental

Roaster Floor Bldg. #9

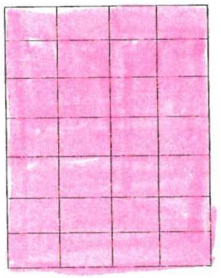
Bunker Hill Superfund Site

| MCS Job No: | Date | By: BLR |
|---|---|---|
| A94-001 | 1/7/94 | |
| Page __ of ___ | FLOOR #2 | |



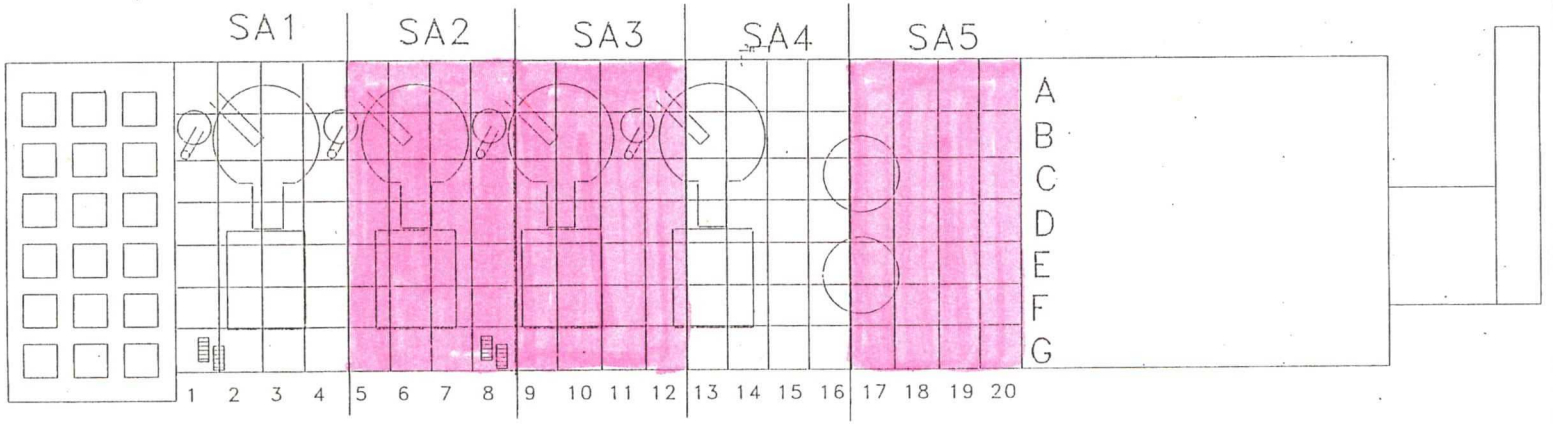

LEGEND

SA1



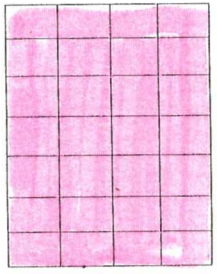
Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| MCS Environmental | | |
|---|---|---|
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
| Page __ of ___ | FLOOR #3 | |



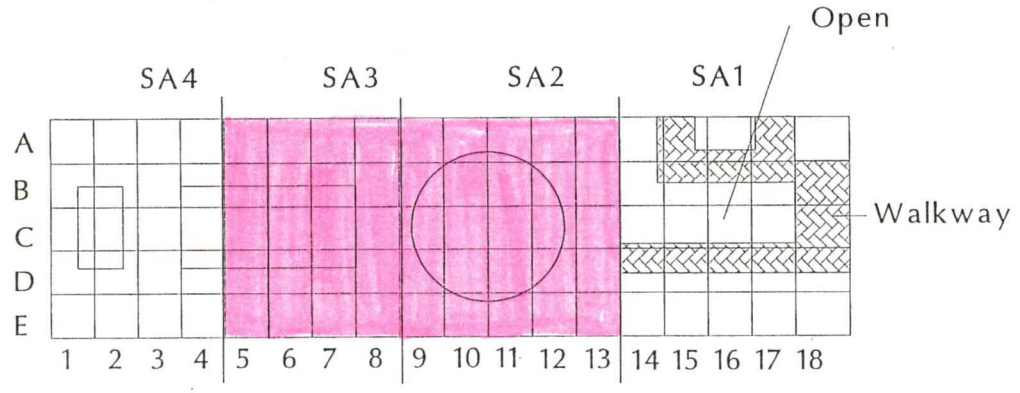

LEGEND

SA1



Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| MCS Environmental | | |
|---|---|---|
| Roaster Floor Bldg. #9 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 1/7/94 | By: BLR |
| Page __ of ___ | FLOOR #4 | |

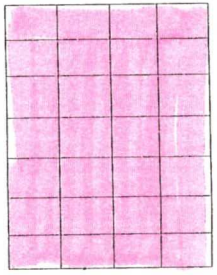



RB5

←N→

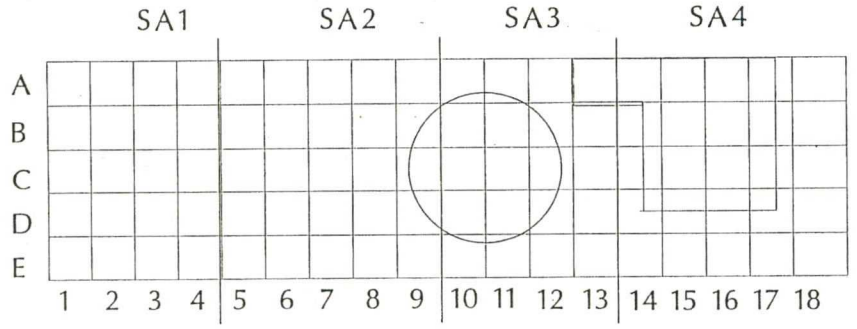
LEGEND

SA1



Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #2 | |

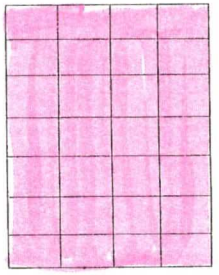



RB5

←N→

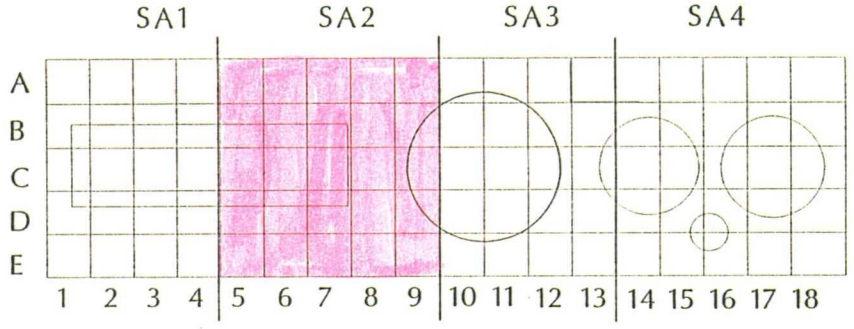
LEGEND

SA1



Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #3 | |

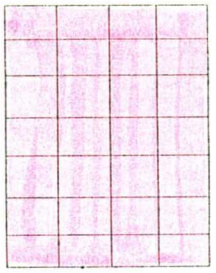



RB5

←N→

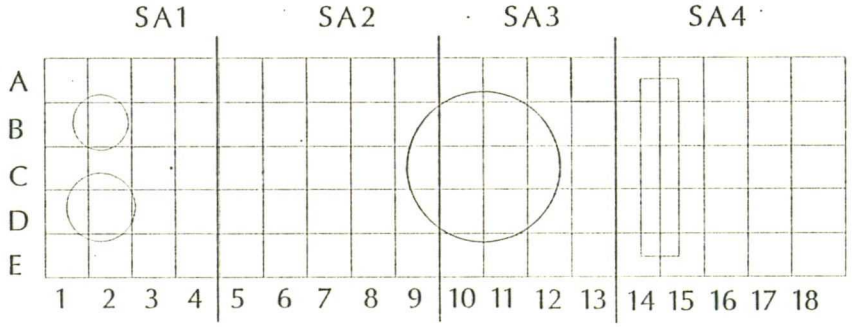
LEGEND

SA1



Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #4 | |

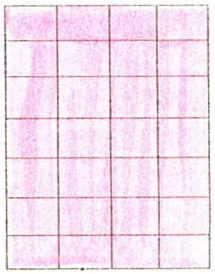



RB5

N

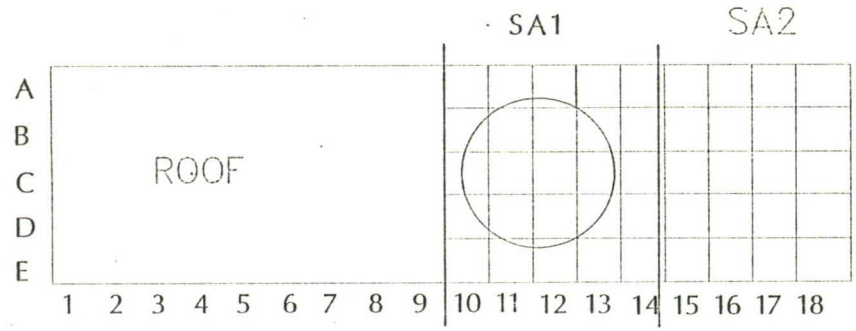
LEGEND

SA1



Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #5 | |

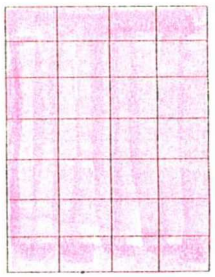



RB5

←N→

LEGEND

SA1



Sample Area (SA#) With Composite Sample Containing Greater Than Trace Asbestos

| MCS Environmental | | |
|---|---|---|
| Roaster Bldg. #5 | | |
| Bunker Hill Superfund Site | | |
| MCS Job No: A94-001 | Date 3/3/94 | By: BLR |
| Page __ of ___ | FLOOR #6 | |

# APPENDIX F

## CERTIFICATIONS ACCREDITATION
## ROASTER FLOOR BUILDING & ROASTER BUILDING #5
## BUNKER HILL SUPERFUND SITE, KELLOGG, IDAHO

## LIMITED ASBESTOS ASSESSMENT SURVEY OF DUST/DEBRIS

for

## ROASTER FLOOR BUILDING & ROASTER BUILDING #5, KELLOGG, IDAHO

MCS Environmental hereby certifies that the **Limited Asbestos Assessment Survey of zinc containing dusts/debris, Bunker Hill Superfund Site, Kellogg, Idaho** was conducted using the protocol as described within this report. All work and statements contained herein are certified true and correct to the best of MCS Environmental's ability, and using "State of the Art" practices.

Inspector: Ronald H. Knudson Date: 3-8-94

Certificate #: _____

Issued by: Industrial Safety & Consult. Date: 11-19-93

Laboratory Manager: _____ Date: 3/7/94

Laboratory Number: _____

NIST/NVLAP Accreditation Number: (b) (6) _____

United States Department of Commerce
National Institute of Standards and Technology

# NVLAP

## Certificate of Accreditation

**MOUNTAIN LABORATORIES**
**MISSOULA, MT**

*is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 7 Code of Federal Regulations. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:*

**BULK ASBESTOS FIBER ANALYSIS**

**October 1, 1994**
*Effective until*

DEPARTMENT OF COMMERCE • UNITED STATES OF AMERICA

*For the National Institute of Standards and Technology*

**NVLAP LAB CODE: 1890**

*This is to certify that*

**Ron Knutson**
**2104 Reserve. Missoula. MT 59801**
(b) (6) [redacted]

*has successfully completed the following course approved by the Montana Department of Health and Environmental Sciences*

# ASBESTOS BUILDING INSPECTOR TRAINING

**Refresher Course**

For the purpose of accreditation required under section 16.42.308 of the Administrative Rules of Montana and Sections 206 of Title II of the Toxic Substance Control Act (TSCA)

conducted by:

## INDUSTRIAL SAFETY & CONSULTING
**P.O. BOX 9217 HELENA, MT 59604**

**For the course conducted on November 19, 1993**
**Location: Helena, Montana**
**Expiration date: November 18, 1994**

INSTRUCTOR

(b) (6) [redacted]
CERTIFICATE NO.

# HAZARDOUS WASTE OPERATION AND EMERGENCY RESPONSE

8 Hour Annual Refresher Course

## Ronald A. Knutson

has completed the 8 hour HAZWOPER Refresher Course, in accordance with 29 CFR 1910.120, conducted by Safety Consultants, Inc., P.O. Box 4925, Missoula, Montana, 59801, (406) 825-3508, at MCS Environmental, Missoula, Montana Montana.

Location: Missoula, Montana

Refresher Due: February 02, 1995

Course Date: February 2nd, 1994

Director of Training: Pete Stanley, President

Pete Stanley

Social Security #: (b) (6)

Certificate Number: (b) (6)